

SAP BUSINESS TECHNOLOGY PLATFORM | EXTERNAL

# Configuration Guide

## Joint Venture Cash Call Approval

# Table of Contents

|  |    |
|--|----|
| Table of Contents.....                                     | 2  |
| Overview.....  | 3  |
| Features.....  | 3  |
| Solution Diagram.....                                      | 3  |
| Artifacts.....   | 4  |
| Process.....   | 4  |
| Process Variants.....                                      | 7  |
| Import Content package and Configure Process Variants..... | 8  |
| Decisions & Policies.....                                  | 8  |
| Approver Determination Strategy.....                       | 8  |
| Determine Administrators.....                              | 9  |
| Determine Approvers.....                                   | 10 |
| Determine Task Due Date.....                               | 12 |
| Determine Approvers from External Service.....             | 14 |
| Process Visibility.....                                    | 15 |
| Configure Visibility Scenarios.....                        | 15 |

# Overview

This document provides information about configuration steps to consume the package **Joint Venture Cash Call Approval**. The main audience of this document are Business Process Experts and Process Operators.

The objective of the workflow is to automate workflow to cash call request to different approvers. The JV cash call process allows the operator to invoice partners for future estimated venture costs. Based on an estimate of the future costs, non-operating partners are invoiced for their share of the costs to be incurred.

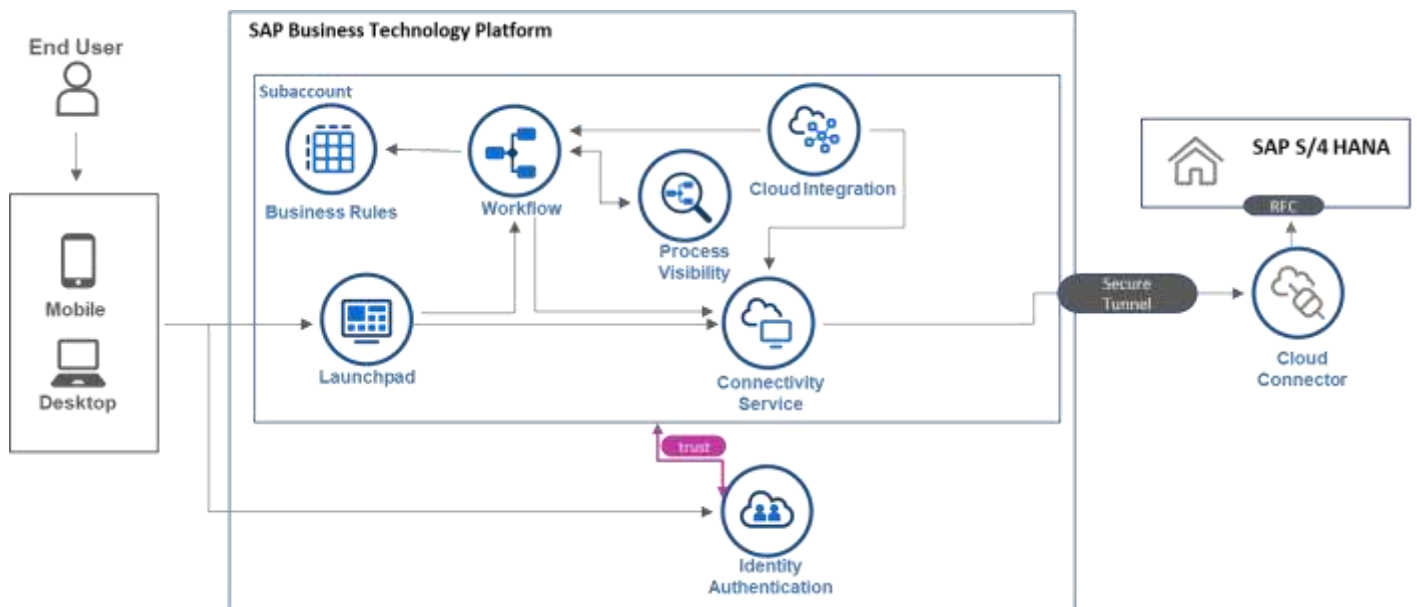
The standard cash call process does not allow to route cash call request to different internal approver(s) before request sent to JV partner.

This extension fills that void and allow to send cash call request to different approver(s) before the request is posted to the system. This extension will notify relevant persons about the cash call request made to JV partner.

## Features

- Plug and Play with SAP S/4 HANA without additional development.
- New Process variants can be configured in a no-code approach.
- Agent/approver determination using Business Rules or external service.
- Pre-built integration content to call SAP S/4 HANA from SAP Workflow Management
- Out-of-the-box visibility into key process performance indicators.

## Solution Diagram



# Artifacts

A package consists of process templates, process steps, process variants, decisions, and process visibility models. Please refer [help documentation](#) about these artifacts.

## Process

A process template is a set of business activities and tasks that, once completed, fulfills an organization goal. The **Joint Venture Cash Call Approval** package contains the following process template:

**Joint Venture Cash Call Approval**– Cash calls are requests for payment for anticipated future capital and operating expenditures, sent by joint venture operators to non-operating partners.

A business process can be broken down logically into smaller parts or steps. Each process step is a collection of activities to perform a specific task. For example, an approval process step can contain activity to determine the approvers, approval task, notifications, and handle the approval result. **Table 1** represents the list of process steps/sub flows available to be used in Joint Venture Cash Call Approval.

**Table 1. Process Steps**

| Process Steps        | Cardinality           | Detailed Description  |
|----------------------|-----------------------|---|
| Cost object approval | 1..1 = mandatory step | Workflow for the Cost object owner to take the action on the JV cash call |
| Supervisor approval  | 1..1 = mandatory step | Workflow for the JV supervisor to take the action on the JV cash call     |
| Post Cash Call       | 1..1 = mandatory step | <b>Workflow step for posting the JV cash call</b>                         |

**Table 2. Process Attributes.**

| Process Attributes | Detailed Description  |
|--------------------|---|
| Company Code       | Company Code of Joint Venture Cash call   |
| Operational Month  | Operational Month of Joint Venture cash call                                    |
| Cash Call Key      | Business Key to uniquely identify joint venture cash calls raised for approval. |

### Sample Context with Start Conditions

```
{
  "cashCallDetails":{
    "companyCode":"4001",
```

```

"docInformation":{
  "companyCode":"4001",
  "partner": "",
  "batchNumber":"UTAK000009",
  "effectiveDate":"20211101",
  "postingDate":"20211101",
  "postingPeriod":"11",
  "operationalMonth": "",
  "cashCallKey":"4001_UTAK000009_0000000000",
  "cashCallType":"gross",
  "requestorID":"XXX",
  "requestorEmail":"XXX@example.com"
},
"cashCallInformation":[
  {
    "jointVenture":"002000",
    "jointVentureDescription":"OPERATED VENTURE",
    "equityGroup":"EG3",
    "partner":"0000000006",
    "costCenter": "",
    "WBS":"00000418",
    "order": "",
    "fundCurrency":"USD",
    "fundAmount":"20.000,00",
    "costObjectOwnerId":"YYY",
    "costObjectOwnerEmail":"YYY@example.com"
  }
]

```

### Sample Context without Start Conditions

```

{
  "cashCallDetails":{
    "companyCode":"4001",
    "docInformation":{
      "companyCode":"4001",
      "partner": "",
      "batchNumber":"UTAK000009",
      "effectiveDate":"20211101",
      "postingDate":"20211101",

```

```
"postingPeriod":"11",
"operationalMonth": "",
"cashCallKey": "4001_UTAK000009_0000000000",
"cashCallType": "gross",
"requestorID": "XXX",
"requestorEmail": "XXX@example.com"
},
"cashCallInformation": [
{
"jointVenture": "002000",
"jointVentureDescription": "OPERATED VENTURE",
"equityGroup": "EG3",
"partner": "0000000006",
"costCenter": "",
"WBS": "00000418",
"order": "",
"fundCurrency": "USD",
"fundAmount": "20.000,00",
"costObjectOwnerId": "YYY",
"costObjectOwnerEmail": "YYY@example.com"
}
]
```

# Process Variants

A process variant consists of multiple process steps configured by a line of business expert. It is possible to create multiple variants of the same process.

Please refer [help documentation](#) about how to import content packages and configure a process variant.

The screenshot displays the SAP Process Variant configuration interface. At the top left, there is a 'Default' button with a right-pointing arrow. To the right are 'Undo', 'Redo', 'Save', and 'Activate' buttons. Below the 'Default' button is a section titled 'Available Steps (3)' containing three step cards: 'Cost Object Approval' (with subtext 'Cost Object Owner Approval Workflow for JV Cash Call'), 'Post Cash Call' (with subtext 'Post Cash Call Approval Status to S/4 HANA'), and 'Supervisor Approval' (with subtext 'Supervisor Approval for JV Cash Call'). The central area shows a flow diagram starting with a light blue circle, followed by three rectangular task boxes: 'CostObjectApproval', 'SupervisorApproval', and 'Post Cash Call', connected by downward arrows. The flow ends at a red circle. To the right of the flow diagram are navigation icons (directional arrows, zoom in/out) and a '100%' zoom indicator. On the far right is the 'Process Variant Properties' panel, which includes a 'Start Conditions' section with a 'More' dropdown. Below this, it states 'Only start the variant if all of the following conditions are met:' followed by a dropdown menu showing 'Cash Call Details.Company Code', an equals sign, another dropdown menu, and a text input field containing 'XYZ'. There is also an 'Add Alternate Conditions' button.

## Import Content package and Configure Process Variants

In Process Flexibility Cockpit app, search for content package **Joint Venture Cash Call Approval**. and import the same. Please refer the standard help document about [how to import a content package](#).

## Decisions & Policies

Decisions allow to encapsulate the business logic from core applications and supports the reuse of business rules across different business processes. Decisions enable customers to adopt changes in processes without changing the underlying workflows or application logic. SAP Workflow Management has business rules capabilities that enables customers to centrally manage all decisions. Please go through the [business rules capabilities](#) in SAP Workflow Management.

Joint Venture Cash Call Approval enable customers to flexibly configure decisions to gain flexibility to

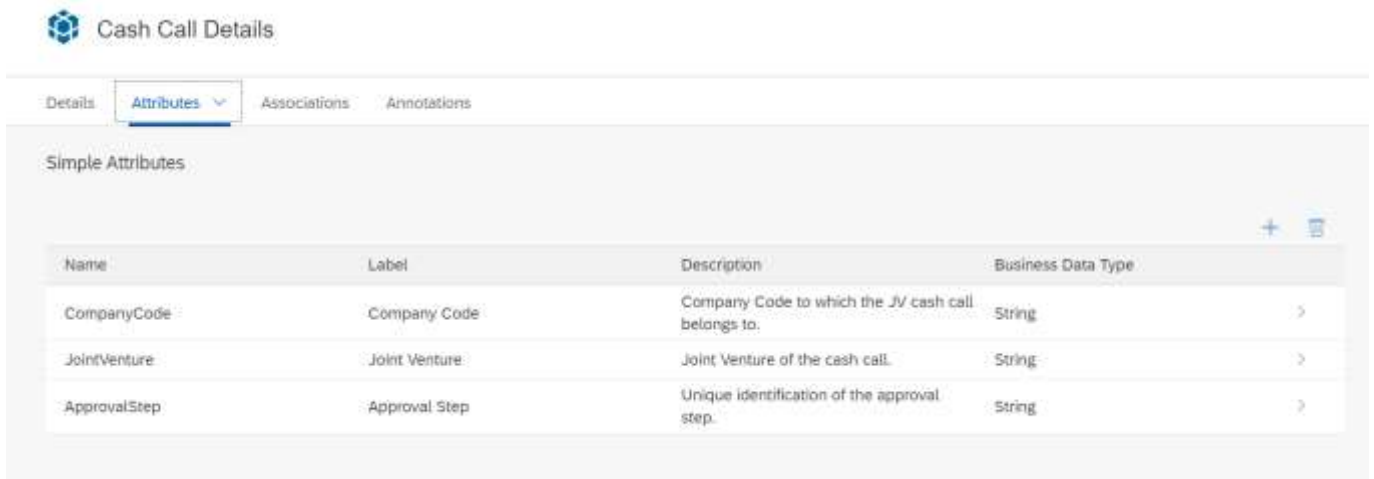
1. Approver Determination Strategy
2. Determine Task Due Date
3. Determine Administrator
4. Determine Approver

## Approver Determination Strategy

Based on the business requirement approver can be determined by external service or business rules.

**Rule Service Name:** Approver Determination Strategy

Input:



The screenshot shows the 'Cash Call Details' configuration page in SAP. The 'Attributes' tab is selected, displaying a table of 'Simple Attributes'. The table has four columns: Name, Label, Description, and Business Data Type. There are three rows of attributes listed.

| Name         | Label         | Description  | Business Data Type |
|--------------|---------------|--|--------------------|
| CompanyCode  | Company Code  | Company Code to which the JV cash call belongs to. | String             |
| JointVenture | Joint Venture | Joint Venture of the cash call.                    | String             |
| ApprovalStep | Approval Step | Unique identification of the approval step.        | String             |



Output:

Approver Determination Strategy

Details **Attributes** Associations Annotations

Simple Attributes

| Name                  | Label                  | Description  | Business Data Type |
|-----------------------|------------------------|--|--------------------|
| DeterminationStrategy | Determination Strategy | Determination strategy can either "Business Rule" or "External Service" depending on cash call details | String             |

Rule Definition

Approver Determination Strategy

Details **Text Rule**

Text Rule

▼ If

Cash Call Details.Approval Step = 'JVSupervisor'

Then

Determination Strategy: 'Business Rules'

## Determine Administrators

Determine administrators in case of any errors in fetching the approvers for JV cash call approval.

Rule Service Name: Determine Administrators

Input:

### Cash Call Details

Details | **Attributes** | Associations | Annotations

Simple Attributes

| Name         | Label         | Description  | Business Data Type |
|--------------|---------------|--|--------------------|
| CompanyCode  | Company Code  | Company Code to which the JV cash call belongs to. | String             |
| JointVenture | Joint Venture | Joint Venture of the cash call.                    | String             |
| ApprovalStep | Approval Step | Unique identification of the approval step.        | String             |

Output:

### Administrator Details

Details | **Attributes** | Associations | Annotations

Simple Attributes

| Name      | Label      | Description                         | Business Data Type |
|-----------|------------|-------------------------------------|--------------------|
| Userid    | User ID    | User ID of the administrator.       | String             |
| UserGroup | User Group | Group ID of the administrator.      | String             |
| Email     | Email      | Email address of the administrator. | String             |

## Rule Definition

### Determine Administrators

Details | **Decision Table**

Decision Table

| If                  | Then                |                     |                     |
|---------------------|---------------------|---------------------|---------------------|
| Approval Step       | Email               | User Group          | User ID             |
| = 'CostObjectOwner' | 'email@example.com' | 'email@example.com' | 'email@example.com' |
| = 'JVSupervisor'    | 'email@example.com' | 'email@example.com' | 'email@example.com' |

## Determine Approvers

Determine approvers for a approval step in JV cash call approval process.

Rule Service Name: Determine Approvers

Input:

### Cash Call Details

Details | **Attributes** | Associations | Annotations

Simple Attributes

| Name         | Label         | Description  | Business Data Type |   |
|--------------|---------------|--|--------------------|---|
| CompanyCode  | Company Code  | Company Code to which the JV cash call belongs to. | String             | > |
| JointVenture | Joint Venture | Joint Venture of the cash call.                    | String             | > |
| ApprovalStep | Approval Step | Unique identification of the approval step.        | String             | > |

Output:

### Approver Details

Details | **Attributes** | Associations | Annotations

Simple Attributes

| Name            | Label            | Description   | Business Data Type |   |
|-----------------|------------------|---|--------------------|---|
| Userid          | User ID          | User ID of the approver responsible for JV cash call approval.        | String             | > |
| UserGroup       | User Group       | Group ID of the approvers responsible for JV cash call approval.      | String             | > |
| Email           | Email            | Email address of the approvers responsible for JV cash call approval. | String             | > |
| SupervisorEmail | Supervisor Email | Email address of the supervisor.                                      | String             | > |
| DueDuration     | Due Duration     | Due Duration  | Number             | > |
| UnitofTime      | Unit of Time     | Unit of Time  | String             | > |

Rule Definition

### Determine Approvers

Details | Decision Table

Decision Table


| If           |               |                  | Then                |                     |                    |                   |
|--------------|---------------|------------------|---------------------|---------------------|--------------------|-------------------|
| Company Code | Joint Venture | Approval Step    | Supervisor Email    | Email               | User Group         | User ID           |
| = 'XYZ'      | = 'XYZ'       | = 'JVSupervisor' | 'email@example....' | 'email@example....' | 'Approver_GroupId' | 'Approver_UserId' |

## Determine Task Due Date

Determine the due date duration for each step of the JV cash call approval process.

Rule Service Name: Determine Task Due Date

Input:


 Cash Call Details

Details **Attributes** Associations Annotations

Simple Attributes

| Name         | Label         | Description  | Business Data Type |   |
|--------------|---------------|--|--------------------|---|
| CompanyCode  | Company Code  | Company Code to which the JV cash call belongs to. | String             | > |
| JointVenture | Joint Venture | Joint Venture of the cash call.                    | String             | > |
| ApprovalStep | Approval Step | Unique identification of the approval step.        | String             | > |

Output:

 Approver Details

Details **Attributes** Associations Annotations

Simple Attributes

| Name            | Label            | Description   | Business Data Type |   |
|-----------------|------------------|---|--------------------|---|
| Userid          | User ID          | User ID of the approver responsible for JV cash call approval.        | String             | > |
| UserGroup       | User Group       | Group ID of the approvers responsible for JV cash call approval.      | String             | > |
| Email           | Email            | Email address of the approvers responsible for JV cash call approval. | String             | > |
| SupervisorEmail | Supervisor Email | Email address of the supervisor.                                      | String             | > |
| DueDuration     | Due Duration     | Due Duration  | Number             | > |
| UnitofTime      | Unit of Time     | Unit of Time  | String             | > |

Rule Definition



## Determine Task Due Date

Details

Text Rule

### Text Rule

▼ If

Cash Call Details.Approval Step = 'CostObjectOwner'

Then

Unit of Time: 'D'

Due Duration: 1

▼ Else If (1)

Cash Call Details.Approval Step = 'JVSupervisor'

Then

Unit of Time: 'D'

Due Duration: 1



## Administrator Details

Details

Attributes

Associations

Annotations

### Simple Attributes



| Name      | Label      | Description                         | Business Data Type |
|-----------|------------|-------------------------------------|--------------------|
| Userid    | User ID    | User ID of the administrator.       | String             |
| UserGroup | User Group | Group ID of the administrator.      | String             |
| Email     | Email      | Email address of the administrator. | String             |

## JV Cash Call Vocabulary Rules for Start and Step Conditions

### Cash Call Details

| Simple Attributes |              |   |                    |
|-------------------|--------------|---|--------------------|
| Name              | Label        | Description                             | Business Data Type |
| companyCode       | Company Code | Company Code of Joint Venture cash call | String             |

### Determine Approvers from External Service

If external service is used to determine the approvers, then document what are the requirements – destination, api, api signature, etc.

| API Attributes                         | Values   |
|--|--|
| Path                                   | /http/getApproversJvcashcallwfm  |
| HTTP Method                            | GET  |
| Payload sent by workflow (sample data) | <pre>{   "d":   {     "CashCall" : \$. Refer to Sample Context without Start Conditions under section Process --,     "Role" : "JV Supervisor"   } };</pre>  |
| Response Payload from integration flow | <p>RESPONSE STATUS, Ex 200 OK</p> <pre>"ApproverRulesResult": {"d": {"approvers": [{"supervisorEmail": "email@example.com", "email": "email@example.com", "userGroup": "Approver_GroupId", "userId": "Approver_UserId"}]}}</pre> <p>Note: When Status is not 200, then it is considered a failed service call.</p> |

|              |                    |
|--------------|--------------------|
| Payload Type | Application / JSON |
|--------------|--------------------|

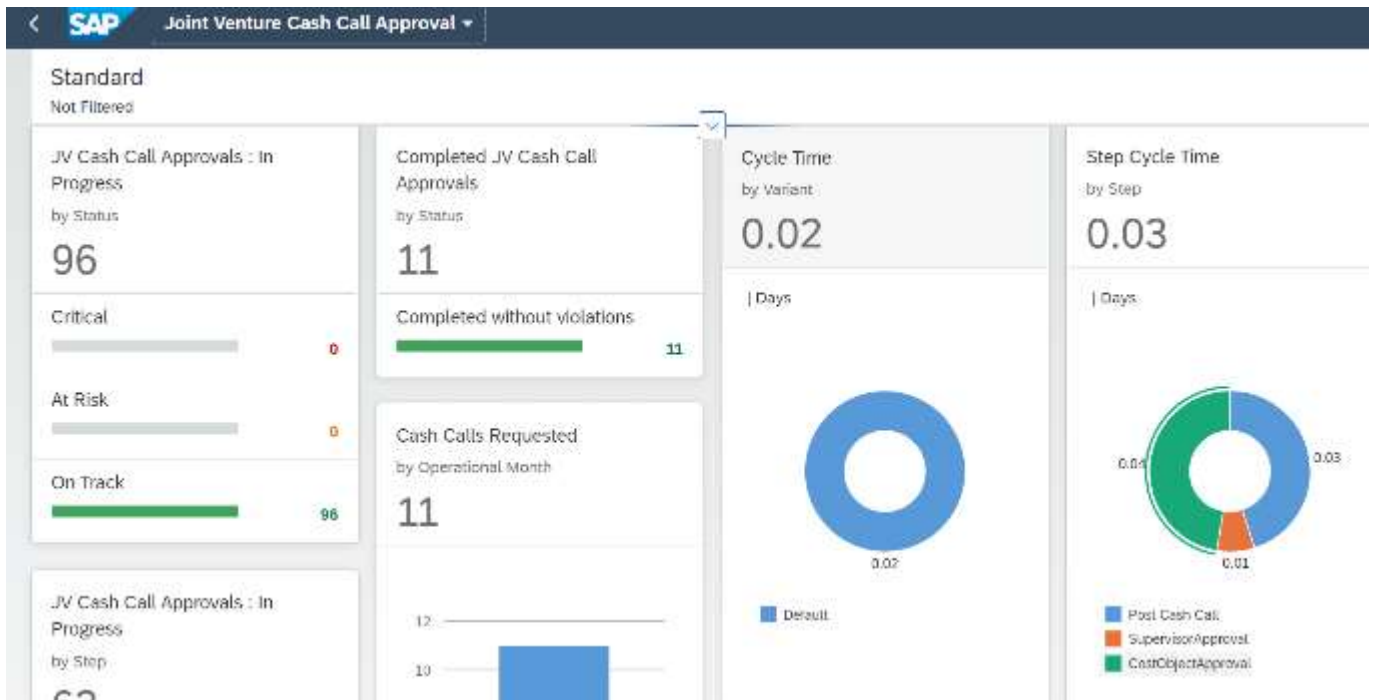
## Process Visibility

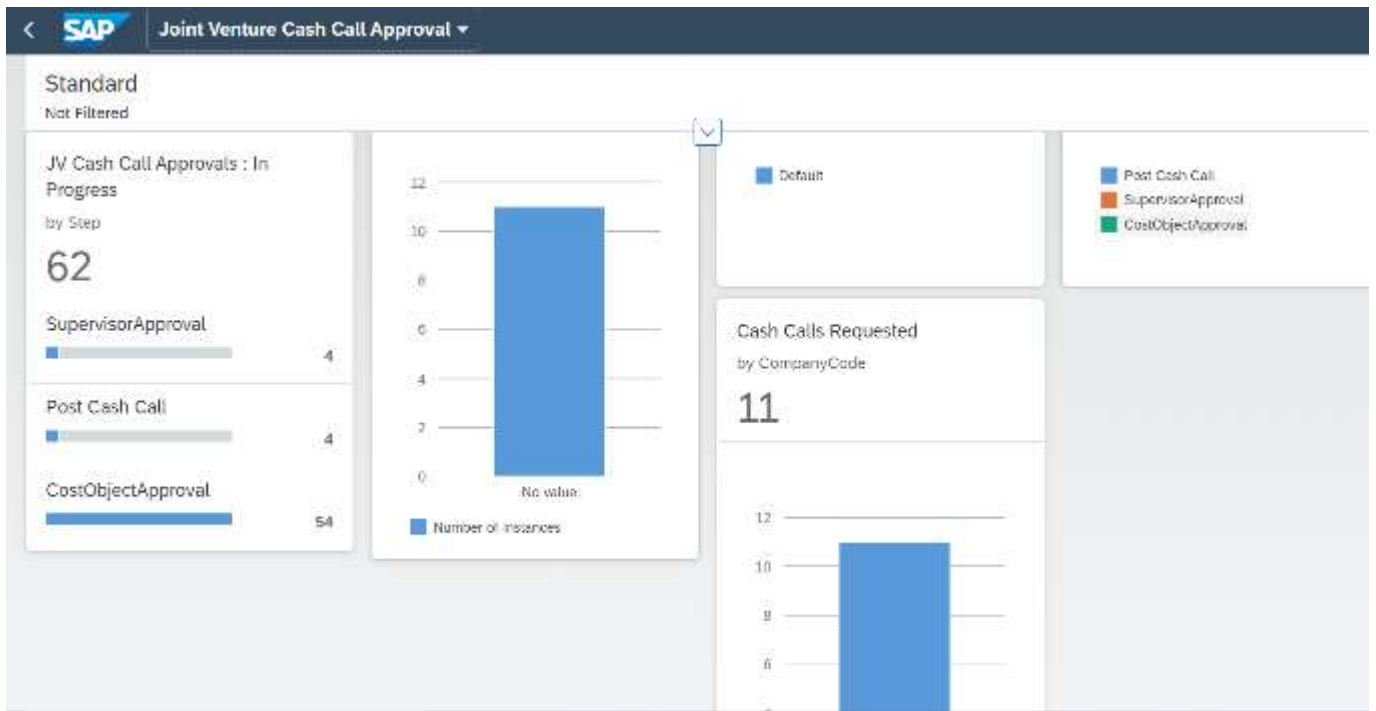
Process Visibility capability in SAP Workflow Management enables Process Owners and Process Operators to gain real time visibility on processes and key process performance indicators. It also enables customers gain out of the box process visibility into their deployed processes. Please refer [help documentation](#) for more details.

Joint Venture Cash Call Approval process content package provide out of the box visibility on all the process variants in SAP Workflow Management. Line of business expert will be able to enhance the visibility scenario to their requirements.

### Configure Visibility Scenarios

1. Go to Process Flexibility Cockpit.
2. Select **Joint Venture Cash Call Approval** tile.
3. Click Visibility Scenarios tile.
4. User will get the following screens





Please go through [help documentation](#) on how to model a visibility scenario.